| Ground Network and Range Software Release Notice | | | | | |
|---|-----------|--------------------------------------|-------------|-----------------------|----|
| System to be Modified: ATS Master and Remote Nodes at Wallops | | | | Release Number: | |
| Request for S/W Change Numbers | [RSC(s)]: | | | 3.6.1 | |
| Originator: Edward K. Payne | Phone: (| : (757)824-1104 DRs Resolved: | | DRs Resolved: | |
| Date: 01 November, 2001 | | | | | |
| DR Short Title: ATS ADEOS Pass Results Compiler Modifications for Data Stripper Incorporation | | | | | |
| Design Review Required for RSCs: | Yes X N | Date Desig | n Review He | ld: Unknown | |
| Effort to Analyze RSCs: N/A H | Iours | Effort to I | mplement RS | Cs: 240 Hours | |
| SLOC 350,000 total added | ch | nged | deleted | | |
| Date Change Required: 01 Nov, 200 | 01 0 | hange Required for 1 | Mission: AD | EOS Log File Reportin | ıg |

Modification Description – Provide General Description of Changes included in this Release (Include attachments to describe change/problem, if available):

The release ATS 3.6.1, which includes a new version of *PassResultsCompiler.exe*, satisfies ADEOS-II project reporting requirements for X-band tape recording quality status. Bytes 128-133 in the pass result summary file generated after LOS will show tape recording status ('Y' or 'N') and quality (either 0.0 or 100.0).

NASA Sub-Task Order Resolved:

This release is intended to satisfy part 2 of CSC sub-task 23 on contract S-05327-G: "...provide engineering support and ... for project level testing."

Files Modified:

\Master\PassResultsCompiler.cpp C source program \Mastert\Process11mResults.cpp C source program \Master\PassResultsCompiler.exe ATS executable

Test Method:

ADEOS II pass result reporting with the described changes has been tested under two environments:

- (1) Off-line from ATS. Test files were created to simulate an ADEOS-II pass. These files include a tapelog, passlog and data stripper controller node status log. They were supplied to an off-line, non-operational version of *PassResultsCompiler.exe* in order to test the changes.
- (2) Operational ADEOS-II. Live automation scheduled supports at WGS were monitored for accuracy of the result reporting. Tests were scheduled November 5-9, 2001 and monitored by Hayden Gordon and Jeff Dorman (CSC) and Alan Schonbrunner (GHG).

| Software Technical Lead Approval Signatures: | Operation Technical Lead Approval Signatures: | |
|--|---|--|
| Date | Date | |
| C. (D.:1.1 I | | |

Software Build Instruction

Platform/Server Intel X-86 chipset CPU with Windows NT 4.0 / Service Pack 6.0 and MS Visual Studio 5.0 installed.

Input Directories (being delivered from):

Initially from CD distribution media, then pushed to the "C:\Downloads\ATS361-01112001" directory on ATS machines at WGS.

Output Directories (being delivered to):

See Installation Instructions

Installation Instructions:

Staging and Activation of ATS Release Candidate Software

| | | ction covers the steps necessary to successfully stage and activate new ATS release candidate software on an ATS computer. | |
|-----|---|---|--|
| The | e step | os presented here will guide the reader on how to | |
| | Ho Ho | w to create a "quarantine" directory for introduction of the new software to an operational ATS computer w to move the new "quarantined" software into "staging" directories in preparation for activation w to move the new software from the staging directories to the actual "run-time production" directories w to restore an operational ATS computer to a previous version of ATS software | |
| | Exp | cedural Note: The work of installing an ATS release candidate on a computer will be done inside of Windows NT blorer. cedural Note: Check off each of the boxes in the following sections as they are completed | |
| Sta | agin | g of ATS Release Candidate Software | |
| | Extra Special Procedural Note: Ensure that ALL ATS processes are shut down on ALL ATS computers (to include each ATS Master and each ATS Remote Node computer) PRIOR to beginning any ATS software staging work! Follow these steps to gracefully bring down ATS: | | |
| | | First, shut down the ATS Master's MonitorAndControl process by way of the MonitorAndControl's "System" pull down menu "Shutdown M & C" entry. Supply the correct password when requested. Shutdown of the MonitorAndControl process will automatically shutdown the ATS Master's copy of a General Resource Manager (GRM) | |
| | | Next, shutdown the "Operations" General Resource Manager (Ops GRM) on each of the ATS Remote Node computers by way of making the Ops GRM window the current window and then entering the "CTRL-C" keystroke combination to begin termination of this console application. Wait for the Ops GRM window to clear. You can observe activity within the slaved process "Device GRM" window during the Ops GRM window shutdown | |
| | | Finally, shutdown the "Device" General Resource Manager (Device GRM) on each of the ATS Remote Node computers by way of making the Device GRM window the current window and then entering the "CTRL-C" keystroke combination to begin termination of this console application. Wait for the Device GRM window to clear | |
| | mu | vironmental Note: The section, which covers the "copying / moving of a large quantity of files", will generally take ch less time if old instrument and controller log files, stale schedule files, as well as PTP "metadata" and "flag files" deleted from the ATS Master and Remote Node computers | |
| | | ATS computer general housekeeping will greatly reduce the amount of data / number of files which must be manipulated on the disk, greatly speeding this process | |
| | | Currently there is not a formal process for handling this, so ask one of the ATS Sustaining Engineers for assistance. A formal process document for performing ATS housekeeping is under development | |
| Int | rodu | ice the ATS Release Candidate Software To This Computer's Quarantine Area | |
| | Sta | rt Windows NT Explorer on the ATS computer from which the ATS release candidate software will be installed | |
| | Inso | ert the ATS run-time distribution CD into the reader of this machine and attempt to expand the directory associated h it | |

Procedural Note: You may experience numerous read problems because of aging CD readers on the ATS computers

Procedural Note: Retry the attempt to read the CD not fewer than 10 times

Procedural Note: If the CD will still not read you may need to go to a different ATS computer with a CD reader that will accommodate the distribution CD

| | | nce the CD successfully is able to be read check to see if there is already a "C:\Downloads" directory present on this achine | | |
|-----|-------------|---|--|--|
| | | If you don't have a "C:\Downloads" directory, create one. This directory serves as a system quarantine zone | | |
| | | □ First click on the "C:" drive icon in the directory tree window on the left portion of the Explorer display □ Next, from the "File" pull down menu, select "New", □ Next select "Folder", | | |
| | | □ Next enter the text "Downloads", then hit Enter | | |
| | | py the wrapper directory "ATS##-MMDDYYYY" that you created in the section, "Distribution Wrapper Directory ep" to the "C:\Downloads" directory on the current computer | | |
| Int | rodı | uce the ATS Release Candidate Over to the other ATS Computer's Quarantine Areas | | |
| | Pus | sh the release candidate software to each of the ATS computers | | |
| | _ _ _ | Assign a drive letter to each of the other ATS computers in the tracking station Ensure that you have a "C:\Downloads" directory on each of the other ATS computers within the station Copy the wrapper directory "ATS##-MMDDYYYY" to the "C:\Downloads" directory on each of the other ATS computers | | |
| Cre | eate | ATS Release Candidate Software 2 nd Level Staging Environment | | |
| | In t | this subsection you will create the release candidate software "staging" environment on each of the ATS computers. | | |
| | | If you are on an ATS Master computer, create the following directories: "C:\Master35" If this one already exists, delete it to include all of its contents, then create a new one "C:\Mf35" If this one already exists, delete it to include all of its contents, then create a new one "C:\Wff35" If this one already exists, delete it to include all of its contents, then create a new one "C:\Wff36" Ensure that the "recycle bin" is empty to free up drive space Create this directory collection on each of the other ATS Master computers Complete the "Remote Node" staging directories setup that follows | | |
| | | If you are on an ATS Remote Node computer, create the following directories: "C:\Node35" If this one already exists, delete it to include all of its contents, then create a new one "C:\Node36" "C:\Wff35" If this one already exists, delete it to include all of its contents, then create a new one "C:\Wff36" Ensure that the "recycle bin" is empty to free up drive space Create this directory collection on each of the other ATS Remote Node computers Complete the "Master" staging directories setup just above | | |
| Cre | eate | a Snapshot of the Current Operational State of each ATS Computer | | |
| | | this subsection you will do a large volume of file moving to duplicate the currently installed environment to enable easy backpedal to the previous version of ATS software from the installation of the release candidate | | |
| | | For each of the ATS Master computers, copy, not move, the following directories and files: The contents (to include all of the subdirectories of), but not the directory name, of "C:\Master" over to both the directories "C:\Master35" and "C:\Master36" Procedural Note: The copy operation may take some time because of the multitude of mission support profile subdirectories that must be copied The contents (to include all of the subdirectories of), but not the directory name, of "C:\Wff" over to both the directories "C:\Wff35" and "C:\Wff36" Continue with the file moving in this subsection on each of the other ATS Master computers Complete the "Remote Node" file moving directions that follow | | |

| Mo | | For each of the ATS Node computers, copy, not move, the following directories and files: The contents (to include all of the subdirectories of), but not the directory name, of "C:\Node" over to both the directories "C:\Node35" and "C:\Node36". Procedural Note: The copy operation may take some time as all of the subdirectories are copied The contents (to include all of the subdirectories of), but not the directory name, of "C:\Wff" over to both the directories "C:\Wff35" and "C:\Wff36" Continue with the file moving in this subsection on each of the other ATS Master computers Complete the "Master" file moving directions in the subsection just above |
|----|------|---|
| | | |
| | | this subsection you will move the release candidate files out of the quarantine directories over to the staging ectories in preparation for formal activation in a later subsection |
| | | For each of the ATS Master computers, copy, not move, each of the following files from the directory "C:\Downloads\ATS##-MMDDYYYY\Master" over to "C:\Master36" directory. Overwrite each when prompted □ Each of the executable files. "*.exe" □ Each of the library files, ".dll" □ Each of the text files, "*.txt" □ The "initialization.txt" from the C:\Downloads\ATS##-MMDDYYYY\Master\Station directory to the |
| | | "C:\Master36" directory For each of the ATS Master computers, copy, not move, each of the following files from the directory "C:\Downloads\ATS##-MMDDYYYY\Wff" over to "C:\Wff36" directory. Overwrite each when prompted Each of the executable files. "*.exe" Each of library files, ".dll" |
| | | Complete the "Remote Node" file moving directions that follow |
| | | For each of the ATS Remote computers, copy, not move, each of the following files from the directory "C:\Downloads\ATS##-MMDDYYYY\Node" over to "C:\Node36" directory. Overwrite each when prompted Each of the executable files. "*.exe" Each of the library files, ".dll" Each of the text files, "*.txt" |
| | | For each of the ATS Remote Node computers, copy, not move, each of the following files from the directory "C:\Downloads\ATS##-MMDDYYYY\Wff" over to "C:\Wff36" directory. Overwrite each when prompted Each of the executable files. "*.exe" Each of library files, ".dll" |
| | | Continue with the file moving above in this subsection on each of the other ATS Master computers |
| Ac | tiva | ation of ATS Release Candidate Software |
| | | this section, upon approval from the chief site shift lead, you will formally activate the release candidate software by ving it to the operations / production directories |
| | | For each of the ATS Master computers, copy, not move, each of the following files from the directory "C:\Master36" over to the "C:\Master" directory. Overwrite each when prompted Each of the executable files. "*.exe" Each of the library files, ".dll" Each of the text files, "*.txt" |
| | | □ The "initialization.txt" from the directory "C:\Master36\Station" over to the "C:\Master\Station" directory For each of the ATS Master computers, copy, not move, each of the following files from the directory "C:\Wff36" over to the "C:\Wff" directory. Overwrite each when prompted □ Each of the executable files. "*.exe" □ Each of library files, ".dll" |
| | | Complete the "Remote Node" file moving directions that follow |
| | | For each of the ATS Remote computers, copy, not move, each of the following files from the directory "C:\Node36" over to the "C:\Node'directory. Overwrite each when prompted Each of the executable files. "*.exe" Each of the library files, ".dll" Each of the text files, "*.txt" |

| | | For each of the ATS Remote Node computers, copy, not move, each of "C:\Wff36" over to the "C:\Wff' directory. Overwrite each when promp Each of the executable files. "*.exe" Each of library files, ".dll" Continue with the file moving above in this subsection on each of the or | pted |
|-----------------------|------|--|---|
| | _ | Continue with the life moving above in this subsection on each of the o | ine TTT Musici Computers |
| Rev | ver | ting to the Previous Version of ATS Software | |
| | an | this section, upon approval from the chief site shift lead, you will "unload earlier version of ATS software to the operations / production directories impleted | |
| | | For each of the ATS Master computers, copy, not move, each of the fol "C:\Master35" over to the "C:\Master" directory. Overwrite each when Each of the executable files. "*.exe" Each of the library files, ".dll" Each of the text files, "*.txt" The "initialization.txt" from the directory "C:\Master35\Station" over the computer of | prompted |
| | | For each of the ATS Master computers, copy, not move, each of the fol over to the "C:\Wff" directory. Overwrite each when prompted Each of the executable files. "*.exe" Each of library files, ".dll" | |
| | | Complete the "Remote Node" file moving directions that follow | |
| | | For each of the ATS Remote computers, copy, not move, each of the fo "C:\Node35" over to the "C:\Node'directory. Overwrite each when pro Each of the executable files. "*.exe" Each of the library files, ".dll" Each of the text files, "*.txt" For each of the ATS Remote Node computers, copy, not move, each of "C:\Wff35" over to the "C:\Wff' directory. Overwrite each when prom Each of the executable files. "*.exe" Each of library files, ".dll" | the following files from the directory pted |
| | Co | ntinue with the file moving above in this subsection on each of the other | ATS Master computers |
| Special Instructions: | | | |
| Del | ive | red to CM by: Edward K. Payne | Date: 01 November, 2001 |
| Bui | ld (| Completed by: Initial Release Candidate: Edward K. Payne Final Release to Operations: Edward K. Payne | Date: 30 October, 2001 Date: |
| Tes | ting | g Approved by: Karen Clark | Date |
| | | tions Approval to Install: James R. Hendrickson | Date |
| Inst | tall | ation Completed by: Edward K. Payne | Date |
| | | re Installation Accepted by: | Date |
| 2000 | - | : CSOC-WFF-LOP-001902, CSOC-WFF-LOP-001904, CSOC-WFF-LOP-001894 FF-LOP-001990, CSOC-WFF-WI-001890, CSOC-WFF-WI-TBD | CSOC-WFF-FORM-000307/Rev0/November |
| | | | |